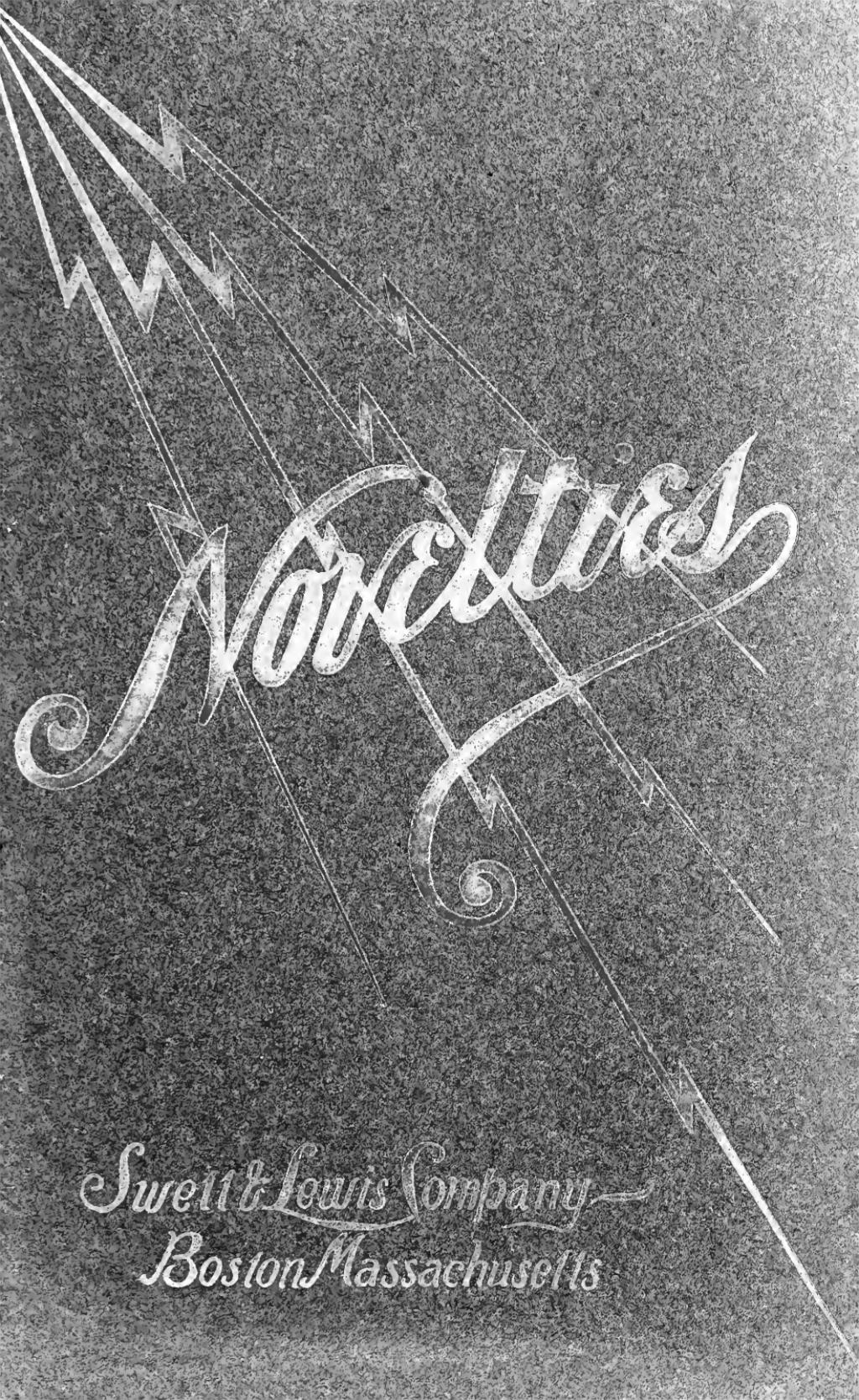
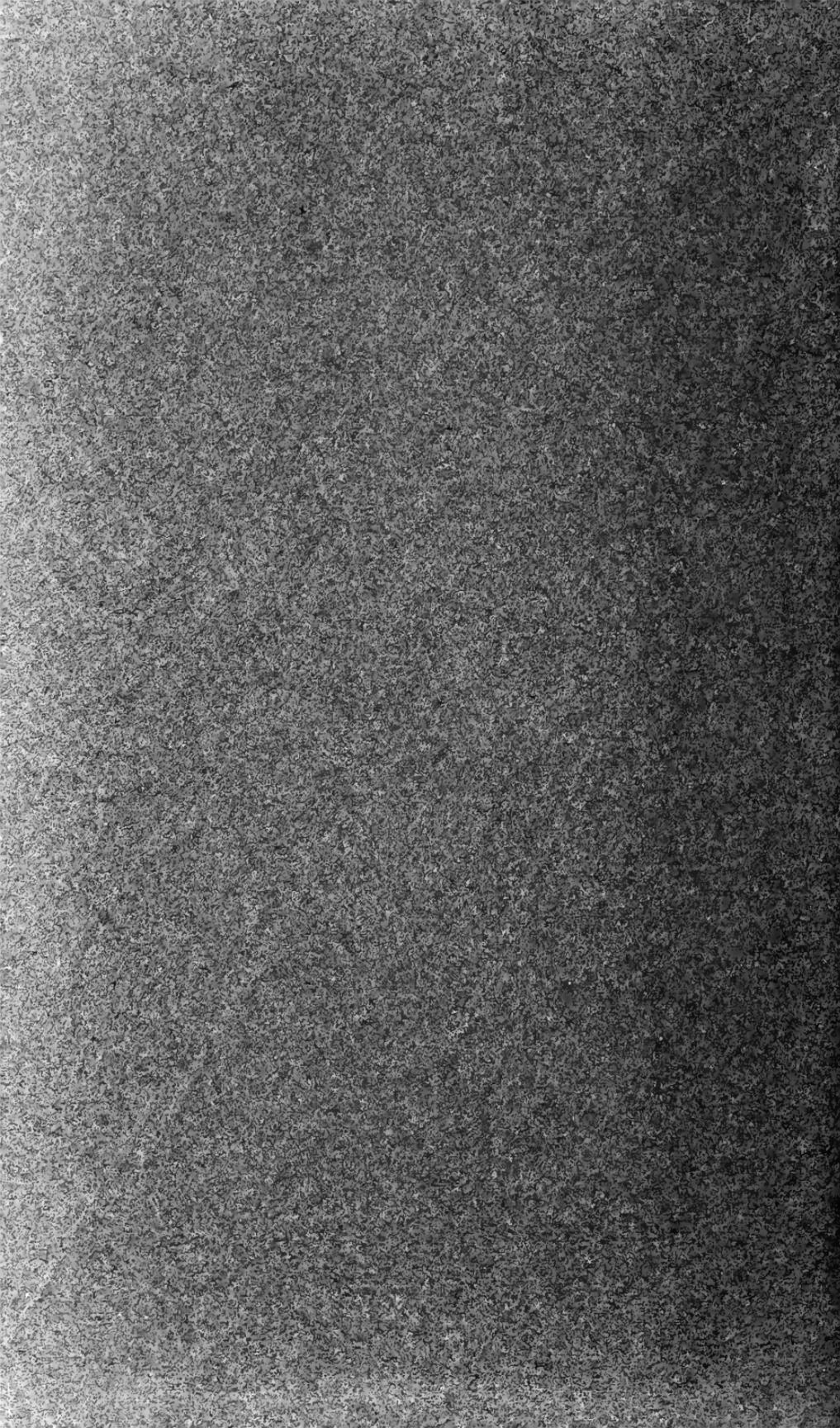


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Swell & Lewis Company
Boston Massachusetts



BULLETIN THIRTY-TWO

Electrical Novelties



The Ultra
Vacuum Electrodes
X-Ray Tubes and Stands
The Multiple Spark Interrupter
Spark Lamp to Produce Violet Rays
Spark Regulator for Coil
Electric Heaters
X-Ray Plates

Swett & Lewis Company
Eighteen Boylston Street, Boston, Massachusetts

Terms

Prices in this catalogue are net.

Remit by express or post office money order or by New York draft. Add twenty-five cents to face of all checks, except on New York or Boston, to cover collection charges.

References

Customers unknown to us must give satisfactory references, or send draft with order, for which we will allow five per cent discount. We will ship C. O. D., provided a remittance of twenty per cent accompanies order. Charges for return of money to be borne by purchaser.

Goods will be delivered f. o. b. freight or express, Boston, Mass. No charge for packing. Each piece of apparatus is carefully packed and no allowance will be made for loss or breakage in transit.

Western Union Telegraph code used. Telegraph and cable address, "Swettxray."

When in Boston, we shall be glad to have you make your headquarters at our office.

Vacuum Electrodes

To meet the demand for a high grade, substantial vacuum electrode, we have designed and manufactured those shown in the following cuts. These electrodes are made from a special glass, which prevents puncture. They are carefully pumped to the right degree of vacuum to produce the best color effects.

Special attention is called to the improved method of regulating the current in the electrode itself. It will be noticed that there is a copper clip on each electrode for attaching the wire. This clip is movable. By slipping it down on the handle a half inch or more, the current in the electrode is weakened, and by slipping it up on the vacuum part, the current is strengthened. By this method of regulation, the strength of the current is under the absolute control of the operator.

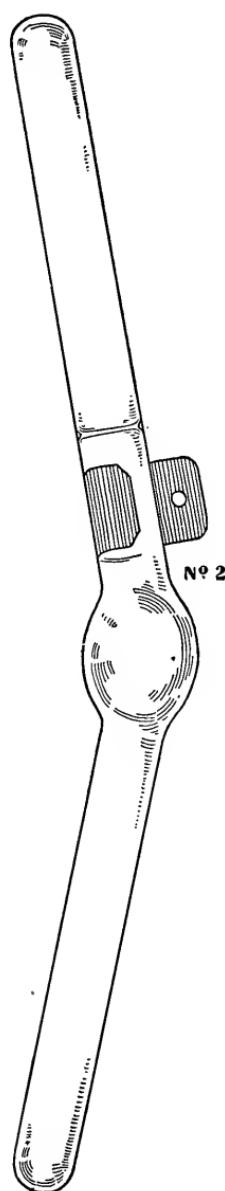
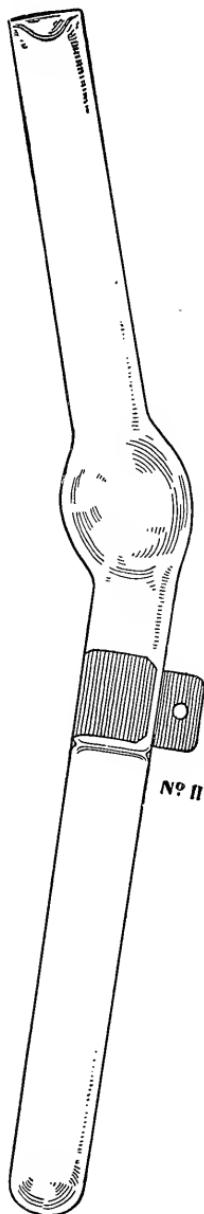
It will also be noticed that the handle forms a part of each electrode, thus making it rigid and reducing the liability of breakage. Electrodes of this kind are more substantial and last better than any other kind. The handle contains no vacuum.

Electrodes Nos. 17 and 18 are specially fine in color effects. In ordering, please specify colors desired. They can be furnished in green, blue, red, or purple.

Vacuum Electrodes for High Frequency Work

No. 14	For general application	.	.	\$2.00.	Code Word — Krämerin
No. 2	For vaginal application	.	.	2.00.	Code Word — Krämpeln
No. 3	For rectal application	.	.	2.00.	Code Word — Krämpe
No. 11	For vaginal application, with cupped end	.	.	2.00.	Code Word — Kränkende
No. 5	For urethral application, with curved end	.	.	2.00.	Code Word — Kränker
No. 7	For urethral application, straight,			2.00.	Code Word — Kränklich
No. 15	For eye application	.	.	2.00.	Code Word — Kränkung
No. 16	Double eye electrode	.	.	2.00.	Code Word — Krätze
No. 19	Hammer electrode	.	.	2.00.	Code Word — Krätzig
No. 18	Geissler electrode, for general tonic treatment	.	.	2.50.	Code Word — Kourilien
No. 17	(Not so highly colored as No. 18)			1.50.	Code Word — Kourgan

SWEET & LEWIS COMPANY



[N4]

CATALOGUE OF NOVELTIES

Electrode No. 19 is most useful, as its shape permits of its being used for a great variety of work.

One pair metal handles and cords \$1.00.

Set of ten electrodes, metal handles and cords, 20.00. Code Word—Krænzen

To meet the demand for vacuum electrodes to fit into a common handle, we have designed the following set of six of the ones most used. The general design is the same as of those illustrated, except that the electrodes are made lighter, and as short as possible, and yet retain the good features.

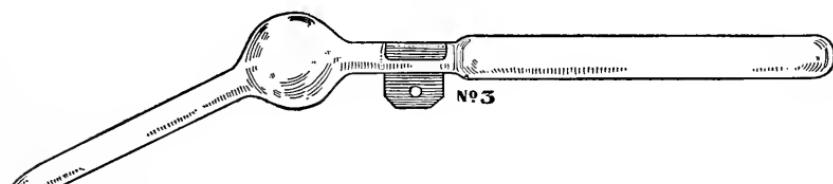
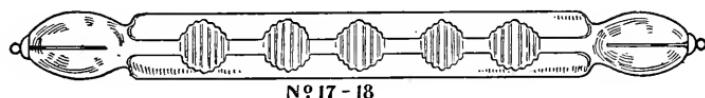
The electrodes are as follows :

Handle	\$1.25.	Code Word—Koulbac
No. 3A Rectal (without bulb)	1.25.	Code Word—Kouler
No. 5A Urethral, curved	1.25.	Code Word—Koulougli
No. 7A Urethral, straight	1.25.	Code Word—Koumiss
No. 11A Vaginal, with cupped end	1.25.	Code Word—Koupara
No. 14A General external work	1.25.	Code Word—Koupholite
No. 20A Eustachian	1.25.	Code Word—Kourakin

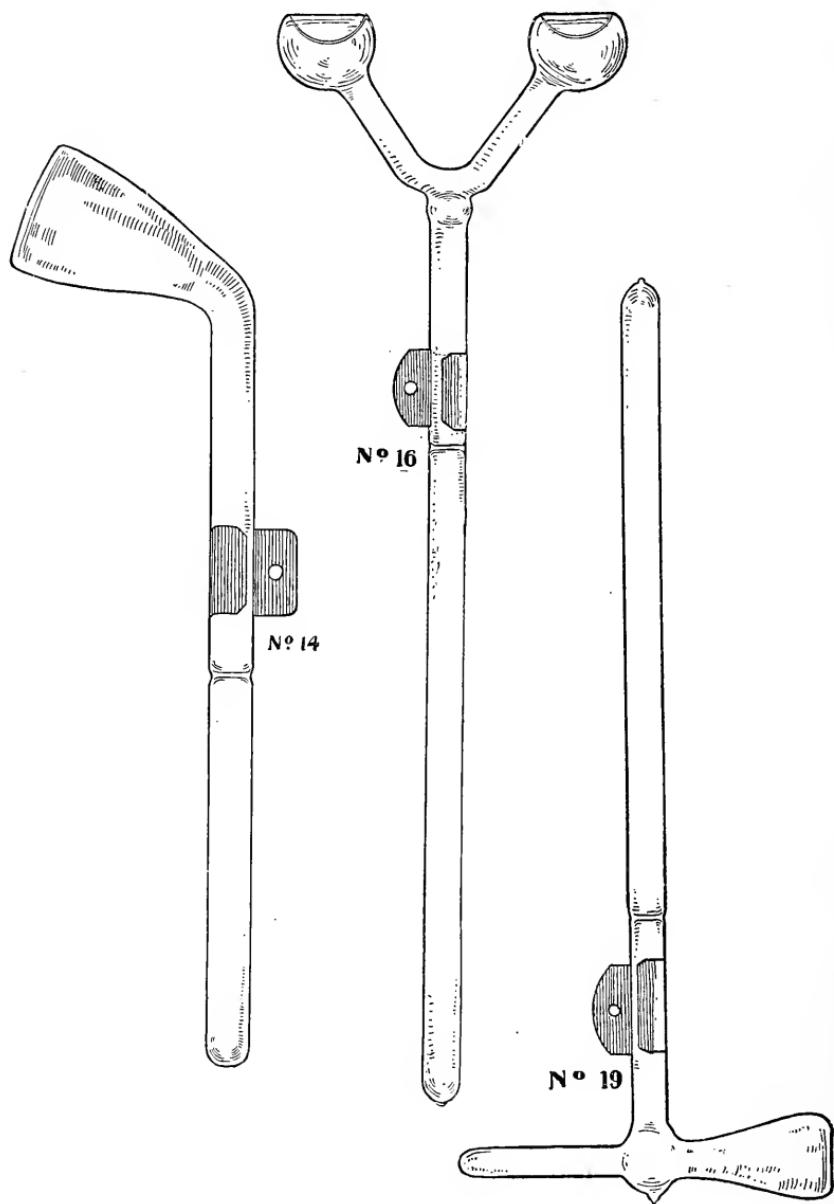
A firm insulating handle, fitted with a universal coupling, will complete the set.

Price for set and handle \$8.00. Code Word—Koukarien

Special electrodes for any purpose, and of any shape, to order; price on application.



SWEET & LEWIS COMPANY



[N6]

Spark Lamp to Produce Ultra Violet Rays

The little lamp shown in the cut above is not a mere plaything, although it is small and of low price. Lamps of this sort have been in use abroad for several years, and good results have been obtained from them in cases of lupus, epithelioma, erysipelas, eczema, etc. The lamp is very simple, cannot get out of order, and may be run from a Kinraide Coil or Static Machine direct, without difficulty.

The base of the lamp is of slate. Cords are heavily insulated, so that there is no danger of the patient getting a shock by contact. The top is of brass nicely nickeled. A hard rubber handle is attached so that the patient or operator may conveniently hold the lamp in position. The balls, across which the spark passes, are of iron. The lens is of the finest crystal and may be easily detached for the purpose of cleaning.

The whole lamp may be readily rendered antiseptic, as nothing but metal and crystal are brought near the patient. It is almost noiseless in its operation, and may be held against the affected part in such a manner as to produce compression. In selecting a lamp, great care should be taken, as many lamps of this character are put out with glass lenses, which are almost opaque to the Ultra Violet ray, if not quite so:

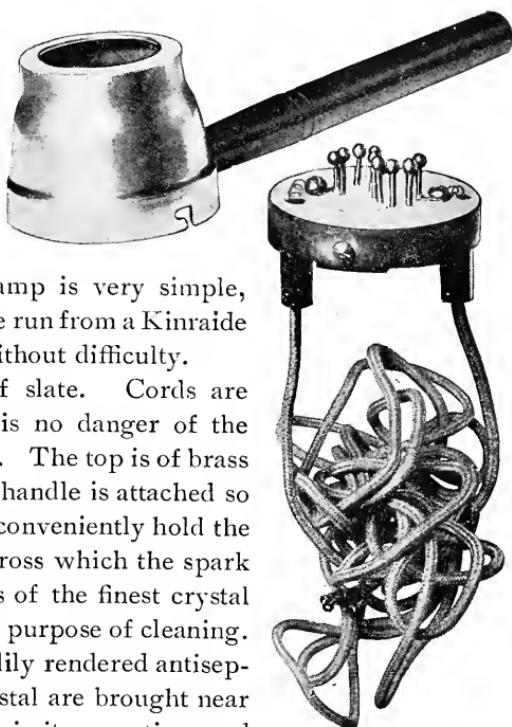
Price, complete with attaching cords, \$10.00. Code Word — Oggerunt

Full directions for use accompany each lamp.

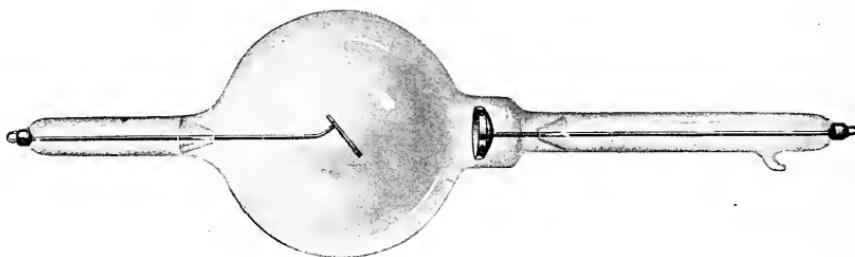
Complete catalogue of Violet ray apparatus on application.

The spark lamp may be used in connection with an ordinary Ruhmkorff coil, if our set of extra strong condensers are used. The set consists of a pair of large, specially constructed jars, properly connected and fitted into a fine mahogany box, complete with suitable connections.

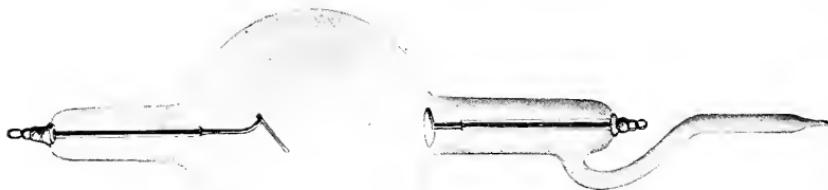
Price, with full directions for use, \$14.00. Code Word — Iaspidis



X-Ray Tubes



Type D



Type M

But two kinds will be mentioned here. If interested, send for bulletin No. 33 on tubes.

The above tubes are specially designed for Static Machine work. Type M is an old familiar one, and many thousands of these tubes are now in use to-day. It has lately been improved in design and arrangement of terminals.

Type D. This tube is an improvement over the old form of J tube, inasmuch as the ends are of equal length and both electrodes are supported where they enter the bulb of the tube, thus preventing any chance of becoming loose or breaking down in use or transit. The definition and penetration are unexcelled. If desired, Type D may be furnished with an adjustment for regulating the vacuum.

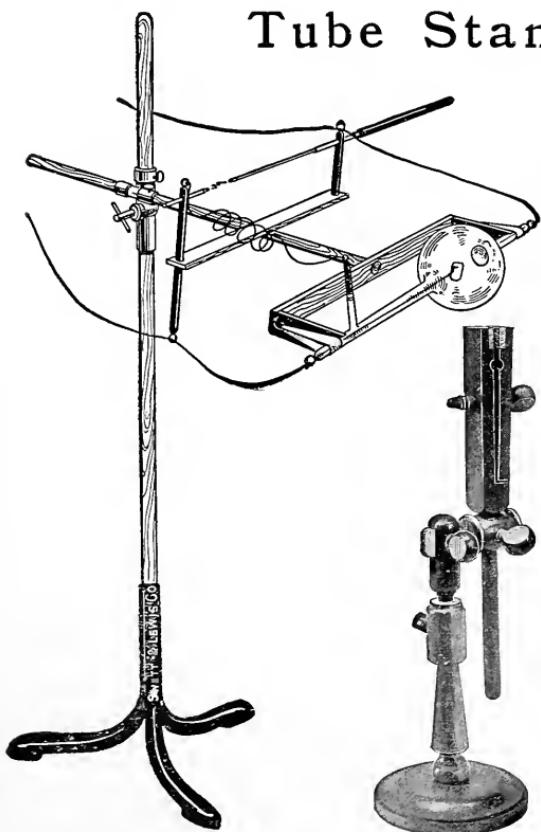
Type M	\$8.00.	Code Word — Demesnial
Type D	10.00.	Code Word — Demeter
Adjustable Type D	12.00.	Code Word — Demeterent

X-Ray Tubes for Cavities

To meet the demand for a tube that may be used in the throat or vagina, we have designed a simple, strong, and convenient tube. The bulb and all but the end of the tube are made in such a way that it is opaque to the X-ray. The end of the tube, however, is transparent to the ray, and may be brought nearly or quite into direct contact with the diseased area. This reduces the time necessary for exposure and increases the efficiency of the treatment. The terminals are so situated that the wires may be kept away from the patient. The tube is substantially built, and a method of reducing the vacuum is supplied.

Price \$18.00. Code Word—Demureness

Tube Stands



In connection with the adjustable vacuum tube, we would recommend the tube stand shown in cut, as it has in combination with it a regulator so arranged that the vacuum in the tube may be held at any point desired.

Floor tube stand, with adjustable spark gap, \$10.00
Code Word—Finados

Set of cords, heavily insulated, \$1.00
Code Word—Finances

Small wood tube stand, \$2.00
Code Word—Finage

Arm, 3 feet long, for use in place of ball and point in stand usually furnished with Static Machines, \$1.50
Code Word—Finalista

Electric Heater

This is specially designed for drying out Static Machines, and when used properly will keep a Static Machine in running order every day in the year.

Heater, special cord, switch, 10-lb. can of fused calcium chloride, with instructions for use, \$10.00

Code Word — Chuana

Ten-pound can of fused calcium chloride, extra dry . . . \$1.50

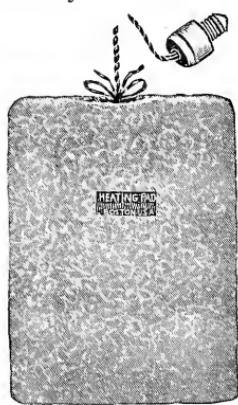
Code Word — Chubbed.



In ordering, state voltage of electric circuit on which heater is to run.

Electric Heating Pad

The cut shows this very useful article. This pad may be connected by means of the cord and plug direct to the lamp socket, and allowed to run for any length of time without danger of overheating, or shock to the patient. The temperature may be maintained at 180 degrees Fahrenheit for any length of time desired. The pad is useful in any condition where heat is indicated. It is soft, flexible, and easily kept clean. There is very little weight, not more than a quarter part as much as in an ordinary water bag. In ordering, state voltage and kind of lamp socket.



- No. 681. 12 x 15 inches, including 10 feet of cord and plug, \$5.00. Code Word — Cauponate
- No. 682. Same as 681 except switch to give three degrees of heat, \$7.50. Code Word — Cauponibus
- No. 683. 15 x 24 inches, 10 feet of cord and plug . . . \$10.00. Code Word — Cauponiser
- No. 684. Same as 683 except switch to give three degrees of heat, \$13.00. Code Word — Cauponized

Block Tin for X-Ray Shields

This material is now much used, and is better by far than lead or rubber. It is light, does not tarnish, and is perfectly antiseptic.

Heavy weight	\$0.75 per lb.	Code Word—Blemish
Medium weight25 per lb.	Code Word—Blemmyer

The latter is largely used for static work.

Multiple Spark Interrupter



The above cut shows a development of an old idea.

As is shown in the cut, this apparatus consists of a large number of small balls, mounted on an insulated block in such a manner that an arm can short circuit some or all of the balls, thus introducing the full resistance or any part of it into the tube circuit.

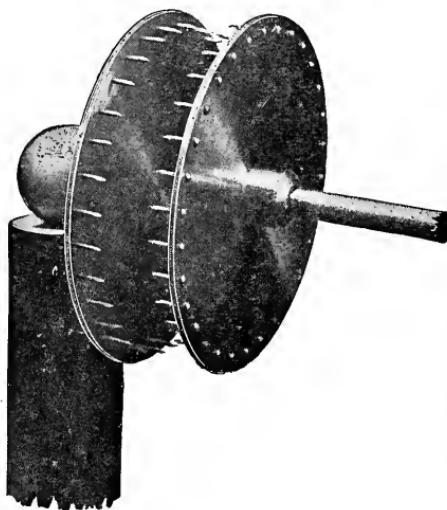
This interrupter is so arranged that it may be readily attached to the frame of the Static Machine or to any other convenient support, by means of two small screws. The interrupters may be used singly, or in pairs as may be desired.

This device is specially valuable in running X-ray tubes from Static Machines. By its use a very low or very high vacuum tube may be made to light up in a fine manner, and is under instant and complete control of the operator.

“A tube from which there is absolutely no fluorescence from a Static Machine when the interrupters are closed, will do valuable service when properly managed with the series ball interrupters, and be of service for a long time with little danger of being punctured—a matter of much importance to X-ray workers.”—*Advanced Therapeutics*.

Price each, complete, with full working directions	\$5.00.	Code Word—Clisobra
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Spark Regulator for Coil



The cut shown above gives a good idea of this very useful attachment. It was designed specially for use with the Kinraide Coil, but may be used with any coil. Its special use is to introduce a resistance into the circuit with the patient or electrode, while using the high frequency electrodes. By its use, the current may be regulated with great exactness.

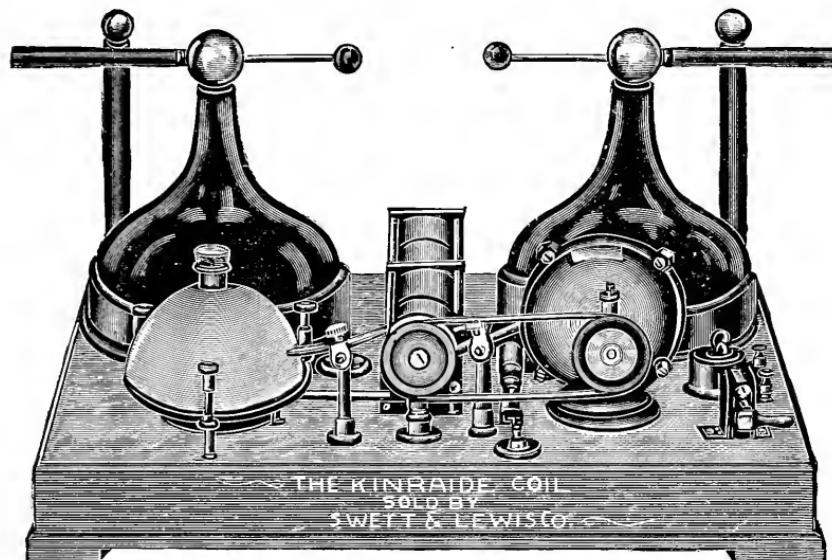
Price \$4.00 per pair. Code Word — Clisson

X-Ray Plates

5 x 7	.	.	.	\$1.40 per dozen. Code Word — Einhergang
6½ x 8½	.	.	.	2.30 per dozen. Code Word — Einhuellen
8 x 10	.	.	.	3.40 per dozen. Code Word — Einimpfen
10 x 12	.	.	.	5.50 per dozen. Code Word — Einjæhrig
11 x 14	.	.	.	7.00 per dozen. Code Word — Einjagen

A supply of the above sizes always in stock. These plates are specially wrapped in light proof paper, no plate holder being required for use with the X-ray.

The Kinraide Coil



We wish very briefly to call to your attention this superb piece of apparatus. This coil is light in weight, cannot be burned out or broken down, may be run on any light or power circuit whether direct or alternating, and is extremely powerful. For X-ray work, either Radiographic or Therapeutic use, it is unexcelled.

The coil generates a current of very high frequency, and the results obtained are unsurpassed.

Price of Coil \$200.00

Send for Bulletins 28, 29 and 31 treating on this apparatus exclusively.

Outfit No. 31 Code Word—Unqueened

One direct current Kinraide Coil	.\$200.00
Two tubes, type K	30.00
One 5 x 7 platinum barium cyanide fluoroscope	12.50
One floor tube stand, with adjustable spark gap for controlling vacuum,	10.00
One rheostat	8.00
One set of electrodes and handle	8.00
	<hr/>
	\$268.50

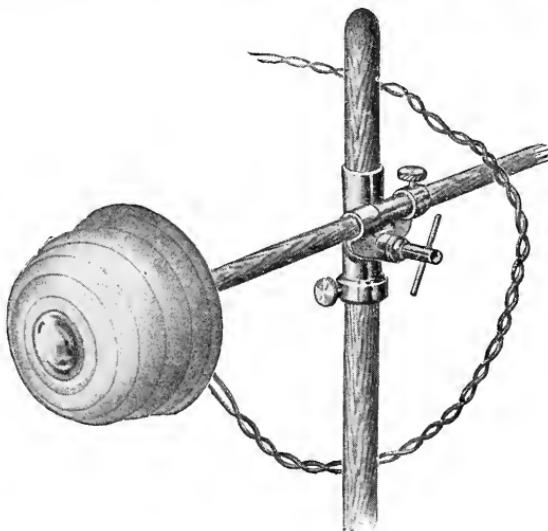
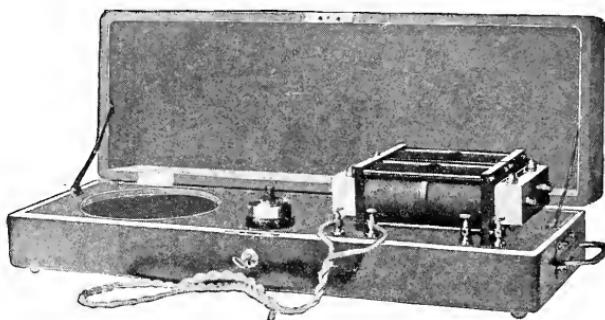
Outfit No. 32 Code Word—Troncs

Same as above, except tubes for alternating current substituted for direct, \$274.50

SWEETT & LEWIS COMPANY

The Ultra

Patented



The cut gives a very good idea of this instrument. The box is nicely made of polished mahogany, mounted on four small rubber feet, and is fitted with a pair of stout handles and a good lock. The apparatus is designed to run from the alternating current and consumes but three amperes at 110 volts, which may be drawn from any lamp socket. The entire outfit, with exception of stand, may be

CATALOGUE OF NOVELTIES

packed into the box, and is readily portable, extremely simple and very durable. The current, as it leaves the lamp, socket is transformed by the coils shown on right of cut, and the current from the transformer charges a condenser located in the base of the box. From the condenser, the current, as it goes to the lamp, is of the high tension, high frequency variety.

This is really a diminutive arc lamp, entirely enclosed in a nice nickel case, and having in front a fine rock crystal lens, which is perfectly transparent to the Ultra Violet ray. Instead of carbons, the electrodes of the lamp are of *iron*. They are regulated by a small thumb screw at the back of the lamp, and are very easily adjusted. The lamp runs very quietly; with the case removed a slight humming is heard. This lamp may be supported by any available stand. It is, however, designed with special reference to the floor stand illustrated on page 9 of this bulletin.

In connection with this stand, the lamp may be placed at any angle or height, and rotated in any direction with ease. The patient may be brought near to or touching the lens, so that the rays may be brought into direct contact with the desired area. Very little heat is generated and no cooling or coloring device is necessary. The whole case of the lamp may be readily detached and boiled for the purpose of sterilization if desired.

Few light rays are given off, but the arc is very rich in invisible Ultra Violet rays, so much so that *the eyes must be protected with glasses or some opaque substance at all times when near the lamp.* Tests show that this lamp produces many times the quantity of the true Ultra Violet rays generated by any other lamp on the market, not excepting the largest arcs in use. This, too, at very small expense.

The cost of running a lamp of this sort will not exceed six to eight cents per hour at the average cost of the electric light, while a large arc lamp may cost as much as two dollars for the same time, besides necessitating special wiring and fixtures.

Price complete, as shown in cut, with stand for supporting lamp, \$110.00
Price without stand 100.00

Twelve extra electrodes and full instructions for use go with each lamp.

S W E T T & L E W I S C O M P A N Y

Lamps now built for alternating current only. In ordering, give voltage of circuit and number of alternations. Motor generator may be furnished to transform direct to alternating current. Price on application.

Complete Apparatus	Code Word With Stand	Code Word Without Stand
52 Volts 7,200 alternations	Retardaron	Retendamus
110 Volts 7,200 alternations	Retardatif	Retendreis
52 Volts 16,000 alternations	Retardavit	Retenez
110 Volts 16,000 alternations	Retardemos	Retengais
52 Volts 15,000 alternations	Retarding	Retenidas
110 Volts 15,000 alternations	Retardo	Retenons

We wish to dwell on the fact, that the entire working parts of the lamp are covered up, and the rays are thrown out in but one direction, so that neither the patient or operator are needlessly exposed.

In closing we wish to quote from a well-known authority on skin diseases :

“The cases of successful treatment of lupus,—and also, let me at once add here, of psoriasis and acne,—which are reported from all quarters, are most encouraging, and justify the expectation that treatment by ‘iron’ light, as applied to cutaneous diseases, may, before long, be accorded that foremost place in skin surgery, which it so amply deserves.”

We should be glad to send the following bulletins to all interested. Preceding bulletins are out of date.

- No. 28 Kinraide Coil and Accessories.
- No. 29 “Why?” A list of testimonials.
- No. 30 Directions for Operating Coil.
- No. 31 List of Sample Coil Outfits.
- No. 32 This one.
- No. 33 Tubes for all Apparatus.
- No. 34 Finsen and Violet Ray Apparatus.

This latter bulletin will be up-to-date and will include several new and improved pieces of apparatus. Be sure and get it before purchasing.

SEVENTH REVISED EDITION.

GREATLY ENLARGED.

Electro- ⊙ ⊙

BY C. S. NEISWANGER, Ph.G., M.D.

Therapeutic
Practice.

A Ready Reference Guide for Physicians
in the Use of Electricity.

Graduate Medical School and Illinois Medi-

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of General Electro-Therapeutics, Illinois
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Author of "Suggestions in Electro-
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A., Etc., Etc.

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18 Boylston St., BOSTON, MASS.

DR. NEISWANGER is, without doubt, the best known CONSERVATIVE writer and teacher of Electro-Therapeutics, and this work has done more to encourage a rational use of electricity in Medicine than all other efforts combined. It is written in his characteristic, plain and lucid style, and the handling of many of the more complex portions of the subject are a revelation to older students.

NO BOOK upon a similar subject has so claimed the attention of the Medical Profession, and the ever increasing demand has induced the author to again re-write, enlarge and bring it up to date. Much new and valuable matter has been added, among which might be mentioned:

The Treatment of Varicocele; the Prostate Gland and Prostatic Urethra; Constipation; Practical Hints on Static Technique. Electricity in Otology, embracing the Treatment of Auditory Canal; Diseases of the Middle Ear; Dilatation of the Eustachian Tube; Etc.

YOU CANNOT BE BUT PLEASED WITH IT.

The Roentgen
X-Ray

Embracing its Physical Properties, Selection and Manipulation of Tubes, Proper Apparatus for its Generation, in which both the coil and Static Machine is considered; Technique of Application, Conservative Estimate of its Value in the Treatment of Malignant and Benign Growths, X-Ray Burns, General Conclusions, etc.

PRICE, POSTPAID, \$1.50.

ELECTRO-THERAPEUTICAL PRACTICE.

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18 Boylston St., Boston, Mass.

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Post-Office,.....

*Remittances should be made by
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Order, Registered Letter, or Draft
on Chicago.*

State,.....



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